

MCLK1	MRHSKRTYC-----PDWDERDWYGTWRSSSSKREKHSHSSAREQKR	43
MCLK2	.P. PR. YHSSERGSRGSYHEHYQSRKHKP RR . P. WSSSSDRT RR . REDS	50
MCLK3	.H.C. .YRSPEPDPYLTYRWK. PPS. SREHEGRLRYPSE. EPPPR. S--	47
MCLK4	.....H.-----S. ESWGHESY. G. ....E. ....TO. NPH	42
MCLK1	<u>CRYDHSKTTDSYYLESRSINEKAYHSRRYVDEY</u> --RN Y MGYEPGH P YGE	91
MCLK2	YHVR S RSSY. DHSSDR. LY-----D. RYCGSYR. .SRDRGEAY. DT	93
MCLK3	---RSRSHDRI P . QRRYREHRS D TY. CEERSPSFGE. CYGSSRSR H RRR	94
MCLK4	.KPH. QFKDSDCHYLEARCLNERDYRD. RYIDEY. .CEGYVPRH. HR	91
MCLK1	PGSRYQMHS-SKSSGRSGRSSYKSKHRSRHTSQHHSHGKSHRRKRSRSV	140
MCLK2	DFRQSYEYHREN. .Y. Q. .RRKHR. R. RRSRTFSR SS SS. RAK-..	142
MCLK3	SRE. APYRTRKH A H C HK. RTRSCSSASSRSQQSSKRSSR-----.	136
MCLK4	DVESTYRIHC. .V. .R. .P. R. RNRPCASH. S. --. I	139
MCLK1	EDDEEGHLICQSGDVLSARYEIVDTLGE G AFGKVVE C IDEHKVG G RRVAVK	190
MCLK2	...A. ....YH V . .W. QE. ....S. ....TS. R. .Q. V. .R. .T. .L.	192
MCLK3	...K. ....V. RI. SW. QE. ....GN. ....T. ....L. .ARGKSQ. .L.	186
MCLK4	.....R. ....GMD. LH.	189
MCLK1	IVKNVDRYCEA A QSEIQVLEHLNTTD P HSTFRCVQMLEWFEH R GHICIVF	240
MCLK2	.I. .EK. K. .RL. .N. .K. .EK. .DNKNL. .FD. .DYH. .M. .S.	242
MCLK3	.IR. .GK. R. .RL. .N. .K. KI E K. KENK. L. .L. SD. .NFH. .M. .A.	236
MCLK4	....GG. R. .R. ....S. .N. V. ....D. H. .V.	239
MCLK1	ELLGLSTYDFIKENSFLP F MDHIRK M AYQICKSVNFLHSNKL T HTDLKP	290
MCLK2	.....F. .L. D. NY. .YPIHQV. H. .F. L. QA. K. .D.	292
MCLK3	....KN. FE. L. .N. Q. YPLP. V. H. .L. HALR. .E. Q.	286
MCLK4	.....QI. ....Q. ....Q. I. ....H.	289
MCLK1	ENILFVKSDYTERA Y MPKMKRDERTI V NPDIKV V DFGSA T DEHH H STLVS	340
MCLK2	.....N. .ELT. .LEK. ....SVKSTAVR. ....F. H. ....I. ..	342
MCLK3	....N. EFETL. .EHKSCE. KSVK. TSIR. A. ....F. H. .T. I. A	335
MCLK4	.....VVK. .S. ....LK. T.	339
MCLK1	TRHYRAPEVILALGWSQPCD W SIGCILIEYYLGFTVFP T HD S REH L AMM	390
MCLK2	.....E. ....E. ....IF. .V. .L. Q. .N.	392
MCLK3	....P. ....E. .A. ....F. .R. .L. Q. .EN. ....V. ..	386
MCLK4	.....Q. ....K.	389
MCLK1	**ERILGPLPKHMIQKTRKRRYFHHDRLDWDEHSSAGRYVS R CKPLKEFML	440
MCLK2	....V. SR. .R. ....QK. .YRG. ....NT. ....REN. ....RRYLT	442
MCLK3	.K. ....I. S. .HR. ....QK. .YKGG. V. .N. D. ....KEN. ....SY. ..	436
MCLK4	....I. A. ....K. ....NQ. ....R.	439
MCLK1	SQDAEHEFLFDLVGKILEYDPAKRITLKEALKH P FFYPLK X HT	483
MCLK2	.EAED. HQ. ....IENM. .S. ....L. .G. .Q. ....AC. R T E P PNTKLWD	492
MCLK4	QDSL. .VQ. ....MRRM. .F. ....Q. ....A. ....L. ....AG. T P EERSFHSSR	486
MCLK5	CHDE. .K. ....RRN. ....R. ....D. ....Q. ....DL. .R.	489
MCLK1	SSRDISR	
MCLK2		
MCLK3	NPSR	
MCLK4		

Figure 1

MPHPRRYHSSERGSRGSYHEHYQSRKHKRRRSRSWSSSDRTRRRRREDSYHV
RSRSSYDDHSSDRLYDRRYCGSYRRNDYSRDRGEAYYDTDFRQSYEYHRENS
SYRSQRSSRRKHRRRRRSRTFSRSSSHSSRRAKSVEDAEGHLYHVGDWLQE
RYEIVSTLGEGTSGRVVQCVDHRRGGTRVALKIKNVEKYKEAARLEINVLEKI
NEKDPDNKNLCVQMFDWFDYHGHMCISFELLGLSTFDLKDNNYLPYPIHQ
VRHMAFQLCQAVKFLHDNKLTHDLKPENILFVNSDYELTYNLEKKRDERSV
KSTAVRVVDFGSATFDHEHHSITVSTRHYRAPEVILEGWSQPCDVWSIGCIIFE
YYVGFTLFQTHDNREHLMAMERILGPVPSRMIRKTRKQKYFYRGRLDWDENT
SAGRYVRENCKPLRRYLSEAEDHHQLFDLIENMLEYEPAKRLTLGEALQHPF
FACLRTEPPNTKLWDSSRDISR

Figure 2

1 cgcacgggcc tcgcccggcag aacgatgccc catccccaa ggtaccatc ctcagagcga
61 ggtggccggg ggagttacca cgaacactat cagagccgaa agcataagcg aagaagaagt
121 cgctcctggt caagtagcag tgaccggaca aggccggcggc ggagggagga cagctaccac
181 gttcggtccc gaagcagcta tgatgaccat tcgtccgatc ggcggctgtc cgatcggcgg
241 tactgtggca gctacaggcg caatgactac agccgggaca gagggggaggc ttactacgac
301 acagactttc ggcagtcata tgaataccat cgagagaaca gcagttaccg aagccagcgc
361 agcagccgaa ggaaacacag aaggccggagg agacggagcc ggacattcg cccgtcatct
421 tcacacagca gccggagagc caagagtgtc gaggacacg ctgagggcca cctcatctac
481 cacgtcgggg actggctaca agagcgatat gaaattgtaa gcaccttagg agaagggact
541 tcgggcccgg tagtgcgtg ttggaccat cgcaggccg gaacacgagt tgccctgaag
601 atcattaaga atgtggagaa gtacaaggaa gcagccgac tagaaatcaa cgtgctggag
661 aaaatcaatg agaaagatcc tgacaacaag aaccctctgtc tccagatgt tgactggttt
721 gactaccatg gccacatgtc tatccctt gagctctgg gccttagcacttccgatttc
781 ctcaaagaca acaactaccc tccatccaag tgccacat ggcctccag
841 ctctgcccagg cctgtcaagtt ctcctatgt aacaagtgtc cacatacgga cctcaaacct
901 gaaaatattc tgtttgtgaa ttcaagctac gaactcacct acaacctaga gaagaagcga
961 gatgagcgcgtgtaaagag cacagccgtg cgggtgggg acttcggcag tgccaccc
1021 gaccacgaac accatagcac cattgtctcc actcgccatt accgagcccc cgaggtcatc
1081 ctggagttgg gctggtcaca gccatgcgtatggagca taggctgtcat cattttgag
1141 tactacgttg gcttcaccccttccagacc catgacaaca gagacatct agccatgtat
1201 gaaaggatcc tgggtctgtt ccctctcggtt atgatcgaa agacaagaaa acagaaatat
1261 tttatcggtt gtcgcctggaa ttggggatgag aacacccatc cggccgcata cgttcgttag
1321 aactgcaaaac ctctgcggcg gtatctgacc tcagagggcag aggaccacca ccagctttc
1381 gatctgattt aaaaatgtt agagatgag cctgctaaaggc ggctgacccctt aggttaagcc
1441 ctccagcatttccgtcgttccgc actgagccac ccaacaccaa gttgtgggac
1501 tccagtcggg atatcgtcg gtgacaattt ggctgggc

Figure 3

MHHCKRYRSPEPDYLTYRWKRRRSYSREHEGLRYP SRREPPP RRSRSRSHDR
IPYQR RYREH RDS DTYCEERSPSFGEDCYGSSRSR HRRRSRERAPYRTRKHAH
HCHKRRTRSCSSASSRSQSSKRSSRSVEDDKEGHLVCRIGDWLQEQY β IVGNL
GE GTFGKVVECLDHARGKSQVALKIRNVGKYREAARLEINVLKKIKEKDKEN
KFLCVLMSDWFNFHGHMCLAFELLGKNTFEFLKENN FQPYPLPHVRH MAYQ
LCHALRFLHENQLTHDLKPENILFVNSEFETLYNEHK SCEEKSVKNTSIRVAD
FGSATFDHEHHTTIVATRHYRPPEVILELGWAQPCDVWSIGCILFEYYRGFTLF
QTHENREHLVMMEKILGPIPSHMIHRTRKQKYFYKGGLVWDENSSDGRYVKE
NCKPLKSYMLQDSLEHVQLFDLMRRMLEFDAQRITLAEALLHPFFAGLTPEE
RSFHSSRNPSR

Figure 4

1 ctgcaggctcg acactagtgg atccaaagaa ttccggcacga ggcgcagccgg agccctgggag
61 acgtatgcac actgttaagcg ataccgttcc ccagagccag acccataacct gacgtaccgc
121 tggaaagagga ggcggctta cagtcggggag catgaaggctc gactacgata cccatcccgaa
181 agggagcctc ccccacggag atcacggtcc agaaggccatg atcgtatacc ctaccagccg
241 aggttaccggg aacaccgtga cagtgtatacg tatcgggtgtg aagagccggag cccatcttt
301 ggagaggact gctatgggtc ttacgttct cgcacatccgga gacggctacg agagagggcg
361 ccgttaccgtc cccgcacca tggccacccat tgcacaaac ggcgttccag gtcttgtagc
421 agtgcctccgtc cggaaagccaa acagagccatg aagcgcacca gccggatgtt ggaagatgtac
481 aaggaggcc accctgggtgtg cccgcacccatg gttggctcc aagagccata tgagatgt
541 gggAACCTGG gtgaaggccac ctttggcaag gtgggtggagt gttggacca tgccagaggg
601 aagtccacagg ttggcccgaa gatcatccgt aatgtggca agtacggga agtgcctcg
661 ctagaaattt aatgttctaa gaaatcaag gagaagaca agggaaaataa gttcccttgc
721 gtcctgtatgt ctgactgggtt caacttccat ggtcatatgtt gcatcgccctt tgagctccgt
781 ggcaagaacaa ctttgggtt cctgaaggag aacaacttcc acccttaccc cttaccacat
841 gtccggcaca tggccctacca gctctgtcat gccccttagat ttctacacga gaaccagctg
901 accccacacag acttgaagcc agagaacatc ttgtttgtga attctgagtt tggaaaccctc
961 tacaatggac acaagagctg cggggagaag tcagtgttacca acaccagcat cccgttcc
1021 gactttggca gtggccacgtt tgaccatgaa catcacacca ccatttggc cacccttcc
1081 taccggccac ctgagggtgtt ctttgggttacccat ggttttacac tttccagac ccatgaaaat
1141 atcggcttgcac ttcttttgcac ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1201 agagaacact tgggttacccat ggttttgcac ttcttgcac ttcttgcac ttcttgcac
1261 cgttaccaggaa agcagaatata ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1321 gatggggcgtt atgttgcac ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1381 ctggggcgtt atgttgcac ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1441 cgcacatccat tggccacccat ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1501 cgggttccat gatggggcgtt atgttgcac ttcttgcac ttcttgcac ttcttgcac
1561 gttggggcgtt atgttgcac ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1621 ggcacccat gatggggcgtt atgttgcac ttcttgcac ttcttgcac ttcttgcac
1681 aatgttgcac ttcttgcac ttcttgcac ttcttgcac ttcttgcac ttcttgcac
1741 ttataataaaa ttataataaaa ttataataaaa ttataataaaa ttataataaaa ttataataaaa

Figure 5

MRHSKRTHCPDWDSRESWGHSYSGSHKRKRRSHSSTQENRHCKPHHQFKD
SDCHYLEARCLNERDYRDRYIDEYRNDYCEGYVPRHYHRDVESTYRIHCSKS
SVRSRRSSPKRKRNRPCASHQSHSKSHRRKRSRSIEDDEEGHLICQSGDVLRAR
YEIVDTLGEAGFGKVVECIDHGMGMDGLHVAVKIVKNVGRYREAARSEIQVLEH
LNSTDOPNSVFRCVQMLEWFDHHGHVCIVFELLGLSTYDFIKENSFLPFQIDHIR
QMAYQICQSQINFLHHNKLTHQDLKPENILFVKSDYVVVKYNSKMRDERTLKN
TDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEY
YLGFTVFQTHDSKEHLAGMERILGPIPAHMIQKTRKRKYFHHNQLDWDEHSS
AGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRMLEYDPARRTLDEALQHPFF
DLLKRK

Figure 6

1 aaagagacgc agcggctgga gaggaacgac ggcggttgg cgacattct gcccaaagg
61 ccgcgtgc ttgcggagat gcggcattcc aaacgaactc actgtcctga ttggatagt
121 agagaagct gggccatga aagctacagt ggaagtcaca aacgcaagag aaggctcac
181 agcagtactc aggagaacag gcactgtaaa ccacatcatc agttaaaga ctcggattgt
241 cactatttag aagcaagatg ctgtatgag agagattatc gggaccggag atacattgt
301 gaatacagaa atgactactg cgaaggatat gttccaagac attaccatag agacgttcaa
361 agcacttacc ggatccattc cagtaaatcc tcagtcagga gcaggagaag cagccctaag
421 agaaagcgta atagaccctg tgcaagtcat cagtcgcatt cgaagagcca ccgaaggaaa
481 agatccagga gtatagagga tgatgaggag ggtcacctga tctgtcaaag tggagacgtt
541 ctaagagcaa gataatgaaat cgtggacact ttaggtgaag gggccatttgg caaagtgtt
601 gagtgcattt atcacggcat ggtatggctt catgtacgatc tgaaaattgt aaaaatgtt
661 ggacgttacc gggaggcagc tggatgttgcata atccaagtat tggagcactt gaacagcact
721 gaccccaaca gtgtctccg atgcgtccag atgctagatg ggtttagtca tcatggcat
781 gtttgtatgt tggttgcgt gctgggactt agtacatgtt atttattaa agaaaatagt
841 ttctgccat ttcaaattgtt tccatcatcagg caaatggctt atcagatctt ccagtcata
901 aatttttac atcataataa attaacacac acggacatca aacatgaaaa tattttattt
961 gtgaagtcgt actatgtatg caaatataat tctaaaatgtt aacgagatgtt ggcacattt
1021 aaaaacacag atatcaaagt tggatgtt ggaagtgcata catatgacgtt cgaacatcat
1081 agtactttgg tgcaccaag gcactacagg gtcacccaggatc tctttggc tctaggatgg
1141 tctcagccat ttgtatgttgc tgcatttttta ttgtatgttca ccttgggttc
1201 acagtcttc agacccacgtt tagttaaaggac caccctggcaat tgatggagcg gatcttaggt
1261 cccatccatc cccatcatgtt ccagaagaca agggaaacgcata agtatttccatccatccat
1321 ttagattggg acgagcatatgtt ttcagctggg agatatgttca gtagacgcgtt caagccgtt
1381 aaggaatttta tgctgtgtca tgacgtatgttca gtagacgcgtt tggatgttca
1441 atgttggatgtt atgacccatgtt gagaaggatc accttggatgtt aagcattgtca gaccccttc
1501 ttgtatgttca taaaaggaa atgagttggatgtt gtcaggccgg cccgttccat

Figure 7